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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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INTERNATI	IONAL PRELIMINAR		ATION REPU	OKT _.
	(PCT Article 36 a	nd Rule 70)		
Applicant's or agent's file reference PA1652WO	FOR FURTHER ACTIO	N See Notifi Preliminary	cation of Tran Examination Rep	smittal of Internation ort (Form PCT/IPEA/4
International application No. PCT/FR2003/003288	International filing date (da 04 novembre 2003 (• •	Priority date (de 08 novemb	ay/month/year) re 2002 (08.11.200
International Patent Classification (IPC) or a B81C 1/00, B32B 31/00, B01L			•	
Applicant	/MISSARIAT A L'ENE	RGIE ATOM	IIQUE	
This international preliminary exam and is transmitted to the applicant a	nination report has been preparecording to Article 36.	red by this Inter	national Prelimina	ry Examining Authorit
2. This REPORT consists of a total of	f 6 sheets, incl	ding this cover	sheet.	
amended and are the basis for 70.16 and Section 607 of the	nied by ANNEXES, i.e., shee for this report and/or sheets co e Administrative Instructions	taining rectifice inder the PCT).	ion, claims and/or ations made befor	drawings which have t re this Authority (see I
These annexes consist of a t	total of sheet	.		
3. This report contains indications rel	ating to the following items:			
I Basis of the report				
II Priority				
III Non-establishment	t of opinion with regard to no	elty, inventive s	tep and industrial	applicability
IV Lack of unity of in	vention			
V Reasoned statement citations and explain	nt under Article 35(2) with remarkable in the remarks and the state of	ard to novelty, i nent	nventive step or it	ndustrial applicability;
VI Certain documents	s cited			
VII Certain defects in	the international application			
VIII Certain observatio	ons on the international applic	tion		
Date of submission of the demand	Di	e of completion	of this report	
25 mai 2004 (25.05.	.2004)	15	5 April 2005 (1	5.04.2005)
Name and mailing address of the IPEA/E	P A	thorized officer		
Facsimile No.	Τ.	ephone No.		



International application No.

PCT/FR2003/003288

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1.	With	regard to	o the elements of the international application:*	·				
	\boxtimes	the inte	rnational application as originally filed					
	\boxtimes	the des	cription:					
		pages	1-10	, as originally filed				
		pages		, filed with the demand				
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		pages		, as originally filed				
		pages pages	, as amended (together					
		pages	1-15 , filed with the letter of	, filed with the demand				
	K 7	-		03 July 2004 (03.07.2004)				
٠	\boxtimes	the dra	wings:					
		pages	1/4-4/4	, as originally filed				
		pages		, filed with the demand				
		pages	, filed with the letter of					
	□ t	he seque	nce listing part of the description:					
		pages		as originally filed				
		pages		, filed with the demand				
		pages	, filed with the letter of					
2.	the in	regard to the language, all the elements marked above were available or furnished to this Authority in the language in which iternational application was filed, unless otherwise indicated under this item. e elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/ or 55.3).						
3.	With	regard	to any nucleotide and/or amino acid sequence disclosed in the internati xamination was carried out on the basis of the sequence listing:	onal application, the international				
	Ц	contair	ned in the international application in written form.					
	Ц	filed to	gether with the international application in computer readable form.					
	Ц	furnish	ed subsequently to this Authority in written form.					
	Ц	furnish	ed subsequently to this Authority in computer readable form.					
		The st	atement that the subsequently furnished written sequence listing does not tional application as filed has been furnished.	go beyond the disclosure in the				
		The st been fi	atement that the information recorded in computer readable form is identical urnished.	to the written sequence listing has				
4.	\boxtimes	The an	nendments have resulted in the cancellation of:					
			the description, pages					
		K-21	the claims, Nos16					
			the drawings, sheets/fig					
5.		This rep	port has been established as if (some of) the amendments had not been made, sin the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	ace they have been considered to go				
*	in ini	icement i is report (0.17).	sheets which have been furnished to the receiving Office in response to an invitat t as "originally filed" and are not annexed to this report since they do not	tion under Article 14 are referred to contain amendments (Rule 70.16				
**	Any r	eplacem	ent sheet containing such amendments must be referred to under item $\it I$ and annex	ed to this report.				
			-	-				

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NO

Statement			
Novelty (N)	Claims	1-12	YES
	Claims	13-15	NO
Inventive step (IS)	Claims	1-12	YES
• • •	Claims	13-15	NO NO
Industrial applicability (IA)	Claims	1-15	YES

Citations and explanations

1. Reference is made to the following document:

Claims

- D1: H. DREUTH, C. HEIDEN: "A method for local application of thin organic adhesive films on micropatterned structures" MATERIALS SCIENCE AND ENGINEERING: C, vol. 5, no. 3-4, 1 February 1998 (1998-02-01), pages 227-231, XP002278129.
- 2. Document D1, which is considered to be the prior art closest to the subject matter of claim 1, describes (cf. figure 1; the references between parentheses apply to said document):
- 2.1 A method for producing a component, comprising a microstructured substrate ("substrate, microstructure") and a complementary element ("PET foil") mutually assembled using an assembly joint ("adhesive film"), which method comprises the production of said assembly joint by means of:
 - a first step of depositing a thin film of polymer onto a transfer substrate ("adhesive film brought into contact"),



- a second step of contacting said microstructured substrate and said thin polymer film ("I. Substrates brought into contact", "II. Pressure applied"), and
- a third step of removing said transfer substrate (III. Substrates separated") in such a way that the assembly joint is formed by the areas of said thin polymer film that were in contact with said microstructured substrate during the second step, which method is characterised in that the chemical affinity between said microstructured substrate and said thin polymer film is greater than that between said transfer substrate and said thin polymer film (see the paragraph entitled "3. Results", the PTFE substrate is selected because of its low surface energy, which enables said polymer film to be transferred more completely ("adhesive layer could be transferred to the microstructures more completely")).

It follows that the subject matter of claim 1 differs from this known method in that:

- the transfer substrate is flexible and is removed by pulling one end thereof.
- 2.2 The subject matter of claim 1 is, therefore, novel (PCT Article 33(2)).
- 2.3 The problems that the present invention is intended to solve can therefore be considered to be those of facilitating more intimate contact between the adhesive thin film and the microstructured substrate and enhancing the reliability of thin-film tearing.

2.4 The solution to this problem, as proposed in claim 1 of the present application, is considered to involve an inventive step (PCT Article 33(3)), for the following reasons:

Document D1 discusses problems of contact and tearing (cf. paragraph entitled "3. Results"). However, none of the documents cited in the international search report suggests a flexible transfer substrate.

- 2.5 Claims 2-12 are dependent on claim 1 and, as such, therefore also fulfil the PCT requirements of novelty and inventive step.
- 3. The present application does not fulfil the requirements set forth in PCT Article 33(1) because the subject matter of claim 13 does not comply with the requirement of novelty defined in PCT Article 33(2).

Document D1 describes (cf. figure 1, V; the references between parentheses apply to said document):

a component produced using the method as per claim 1 and characterised in that the complementary element is a cover (cf. also the PCT International Search and Preliminary Examination Guidelines, A5.26).

3.1 Dependent claims 14 and 15 do not contain any features which, in combination with the features of any one of the claims to which they refer, might

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define subject matter that fulfils the PCT requirement of inventive step, for the following reasons:

The thin film disclosed in document D1 is adhesive. As a result, it would appear to be obvious for a person skilled in the art to make use of this feature by adhering various items onto the microstructured substrate.